

ANS Q1:

a.

```
account1 balance: $3550
```

b.

```
Error: Initial balance cannot be negative.  
account1 balance: $0
```

c.

```
account1 balance: $1533  
adding $253 to account1 balance  
account1 balance: $1786
```

d.

```
account1 balance: $2770  
adding $375 to account1 balance  
account1 balance: $3145
```

e.

```
account1 balance: $799  
adding -$114 to account1 balance  
account1 balance: $685
```

ANS Q2:

a.

```
GradeBook gradeBook( "Introduction to C++", 25 );
```

Your answer:

```
GradeBook gradeBook( "Introduction to C++" );
```

Errors:

- Line 1: The GradeBook constructor accepts only one parameter of type string. This is a compilation error.
- Line 1: C++ is case sensitive. The GradeBook class requires an uppercase B. Using a lowercase b is a compilation error.

b.

```
setCourseName( gradeBook, "Advanced C++" )
```

Your answer:

```
gradeBook.setCourseName( "Advanced C++" );
```

Errors:

- Line 1: A member function is invoked on an object by using the name of the object followed by the dot separator followed by the name of the member function and its arguments in parentheses. The object is not passed to the member function as a parameter. This is a compilation error.
- Line 1: Forgetting the semicolon at the end of a statement is a syntax error.

C.

```
1 cout << "Please enter the course name:" << endl;
2 cin.getline( inputName );
3
4 gradeBook.setCourseName();
```

Your answer:

```
1 cout << "Please enter the course name:" << endl;
2 string inputName;
3 getline( cin, inputName );
4
5 gradeBook.setCourseName( inputName );
```

Errors:

- Line 2: Variables must be declared before they are used. If `inputName` has not been declared previously in the application, it must be declared as a string here. This is a compilation error.
- Line 2: The `cin` object does not declare a `getline` method. The function for entering a line of text is called `getline` and takes `cin` as its first argument. This is a compilation error.
- Line 4: The `setCourseName` member function requires a string parameter. Passing the method the variable `inputName` enables the method to set the name of the course to the input received from the user. This is a compilation error.

d.

```
1 cout << "The grade book's course name is: " << gradeBook.courseName << endl;
```

Your answer:

```
1 cout << "The grade book's course name is: " << gradeBook.getCourseName() << endl;
```

Error:

- Line 1: Variable `courseName` is a private data member of class `GradeBook` and cannot be accessed directly from outside the class. Member function `getCourseName` must be used to obtain the course name. This is a compilation error.